

APPARATUS, SYSTEM, AND METHOD FOR MANAGING MULTIPLE COPY VERSIONS

ABSTRACT OF THE DISCLOSURE

An apparatus, system, and method are disclosed for managing multiple copy versions of a source volume. In one embodiment, the apparatus includes a replication record management module, a pre-pairing record management module, and a copy record module. The replication record management module is configured to maintain a current replication record that is descriptive of a current copy version of the source volume. The pre-pairing record management module is configured to maintain a future pre-pairing record that is descriptive of a future copy version of the source volume. The copy record module is configured to create a copy record from a pre-copy record. The pre-copy record may be either the current replication record or the future pre-pairing record. The apparatus, system, and method beneficially maintain multiple records to describe different states for a particular copy version and dynamically handle changes to a source pool, a target pool, or both in a data copy environment.